

# SCIENCE

# And Technology Program



Theme Area: Water Resources

Program Area: Technology Advancement

Project No.: WR00.10

Project Title: Development of Graphic Tools for Reservoir Models.

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Abstract: Numerical water quality models have large input and output data files. Current display or graphics capability is limited or outdated and is very time consuming to apply the different macros, embedded DOS, or commercial graphics applications. Some commercial applications have promise of having the needed capability. However, they will need the input and output formatted or transferred to different file systems. New plots and graphs can be developed that display the data more clearly and in an easier to understand format. Water quality such as temperature, dissolved oxygen, or contaminants are often cited as critical to project operation or reallocation of project waters. Non-technical interest groups and water users cannot easily interpret the reams of data from the models. Easy to understand displays and graphics will help to bridge this gap with clear and understandable plots of data in graphic displays. Model results can be displayed as animations showing changes caused by different flows, operations and structural changes. This proposed work will review the existing method of plotting data and create new plots and clearer graphics to improve the usability of the model results.